

LISTING OF CLAIMS:

Claim 1 (original) A method for measurement of structures of an object by means of a feeler element assigned to a coordinate measuring instrument and brought into contact with the object and whose position is then indirectly or directly determined, wherein the position of the feeler element is determined directly or a position of at least one target assigned directly to the feeler element is determined with an optical system for measurement of the structure of the object.

Claims 2- 14 (canceled herewith).

Claim 15 (currently amended) Array for measurement of structures of an object (12) by means of a feeler assigned to a coordinate measuring instrument and comprising a feeler element (14) and preferably a feeler extension (16,38), wherein the coordinate measuring instrument (22) comprises a sensor for optical determination of the feeler element (14) and/or of at least one target directly assigned thereto, and an evaluation unit with which the structure is calculated from the position of the optical system relative to the coordinate system of the coordinate measuring instrument and from the position of the feeler element and/or of the target measured directly using the optical system, and wherein the sensor forms the feeler element with at least one jointly adjustable unit and wherein the feeler element (14) and/or target (46, 48, 50) is designed as a reflector.

Claim 16 (cancelled herewith).

Claim 17 (currently amended) Array according to Claim 1
~~at least one of the preceding claims~~, wherein the feeler
element (14) and/or target (46, 48, 50) is designed self-
emitting.

Claim 18 (currently amended) Array according to Claim 1
~~at least one of the preceding claims~~, wherein the feeler
element (14) and/or target (46, 48, 50) is a body such as a
ball or cylinder spatially emitting or reflecting a beam.

Claim 19. (currently amended) Array according to Claim
1 ~~at least one of the preceding claims~~, wherein the feeler
extension (38) is designed at least in some sections elastic
to bending and/or as a light guide comprising a light guide.

Claims 20-25 (canceled herewith).

Claim 26 (currently amended) Array according to Claim 1
~~at least one of the preceding claims~~, wherein the feeler (18)
extends from a holder (20) that is adjustable be at least
three degrees of freedom, preferably five, and preferably
interchangeable.

Claims 27 and 28 (cancelled herewith).

Claim 29 (currently amended) Array according to Claim 1
~~at least one of the preceding claims~~, wherein the feeler
element (14) and/or the target (46, 48, 50) has or is a self-
lighting electronic element such as an LED.

Claims 30-34 (cancelled herewith).